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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/580,225	05/22/2006	Shin-ichiro Umemura	520.46163X00	1792	
20457 7596 64902/2010 ANTONELL, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-3873			EXAM	EXAMINER	
			BRUTUS, JOEL F		
			ART UNIT	PAPER NUMBER	
			3768		
			MAIL DATE	DELIVERY MODE	
			04/02/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/580 225 UMEMURA ET AL. Office Action Summary Examiner Art Unit JOEL F. BRUTUS 3768 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 08 January 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information-Displaceure-Statement(e) (FTO/SS/08)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being
 indefinite for failing to particularly point out and distinctly claim the subject matter which
 applicant regards as the invention.
- Regarding claims 1, 3, 5 and 10 they include the limitation "by arranging reception echo signals". It is not clear how the signals are arranged.
- Regarding claims 2-3, 6-7 and 10, they include the limitation "a signed velocity" it is not clear what a signed velocity means.
- Claims 1-3, 5-7 and 10, they include the limitation "on the basis of". It appears that --based on-- should have the appropriate term.

Claim Objections

Claims 1-3, 5-6 and 10 objected to because of the following informalities: On line
 of claim 1 after the word "unit" -- configured to-- should be inserted.

On line 6 of claim 3 after the word "means" -- configured to-- should be inserted.

On line 2 of claim 6 after the word "means" -- configured to-- should be inserted

and on line 7 after the word "and" -configured-should have been inserted

On line 13 of claim 10 after the word "means" — configured to— should be inserted and on line 20 after "signal of" the letter "a" should be changed to —theon line 10 of claim 5 after "signal of" the letter "a" should be changed to --the--

on line 9 of claim 2 the term "a signed velocity signal is derided" should be

changed to an appropriate term.

The changes mentioned above are suggested to positively define the claim

limitations

7. The examiner had contacted Applicant's representative Leonid Thenor via phone

on 3/25/2010 in an effort to resolve these issues but fail to solve them in order to put the

application in condition for allowance.

Allowable Subject Matter

8. Claims 1-10 would be allowable if rewritten or amended to overcome the

rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The claims are allowable because none of the references on records teach

measuring velocity based on Legendre polynomial expansion coefficients starting from

0th degree and the ratio between the magnitude of each complex expansion coefficient

and the magnitude of an interval between complex expansion coefficients.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to JOEL F. BRUTUS whose telephone number is

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(571)270-3847. The examiner can normally be reached on Mon-Fri 7:30 AM to 5:00

PM (Off alternative Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Long Le can be reached on (571)272-0823. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. F. B./

Examiner, Art Unit 3768

/Long V Le/

Supervisory Patent Examiner, Art Unit 3768